

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P943175

Luminaire Tested: **GALN-SB7C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55832 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

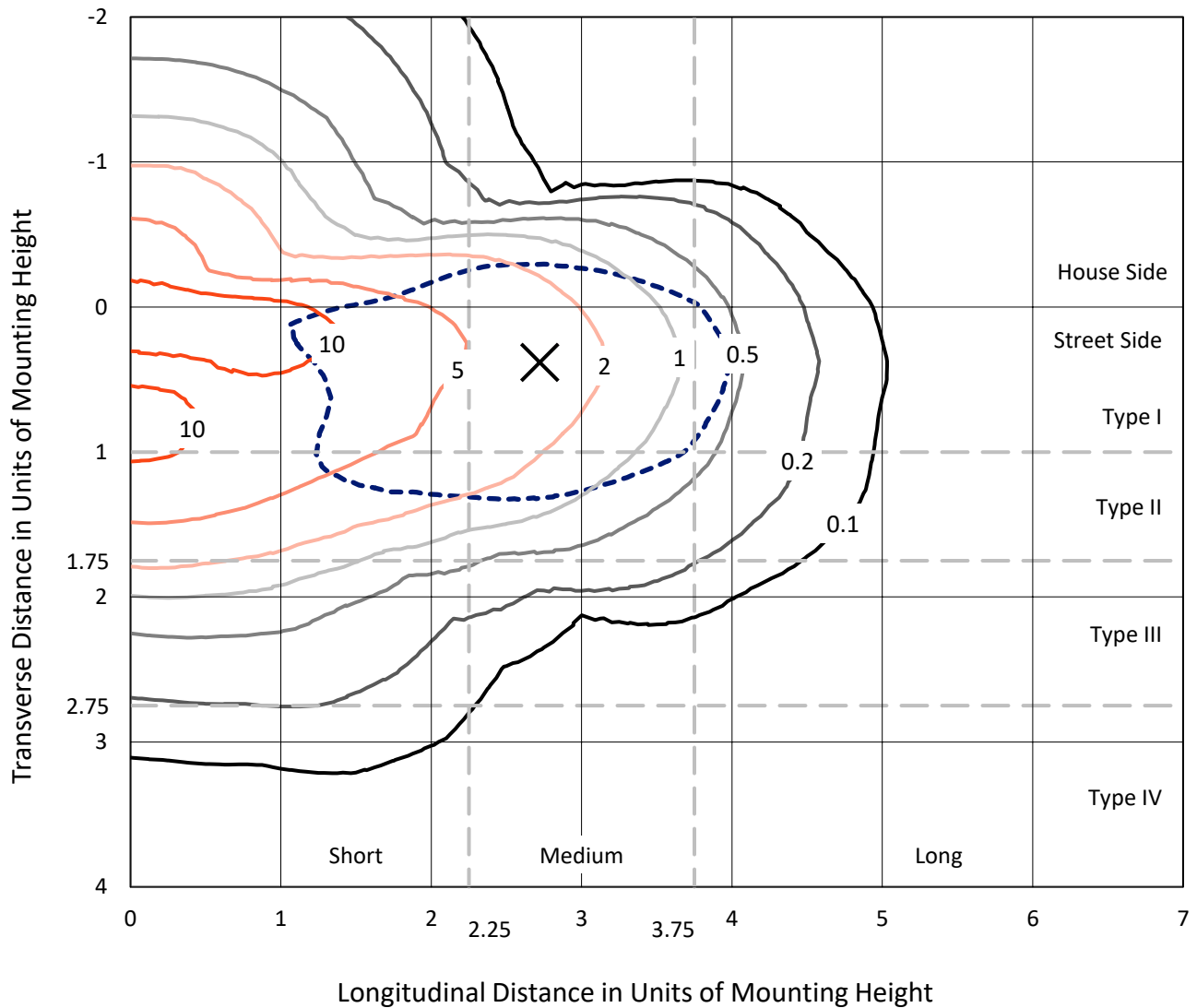
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

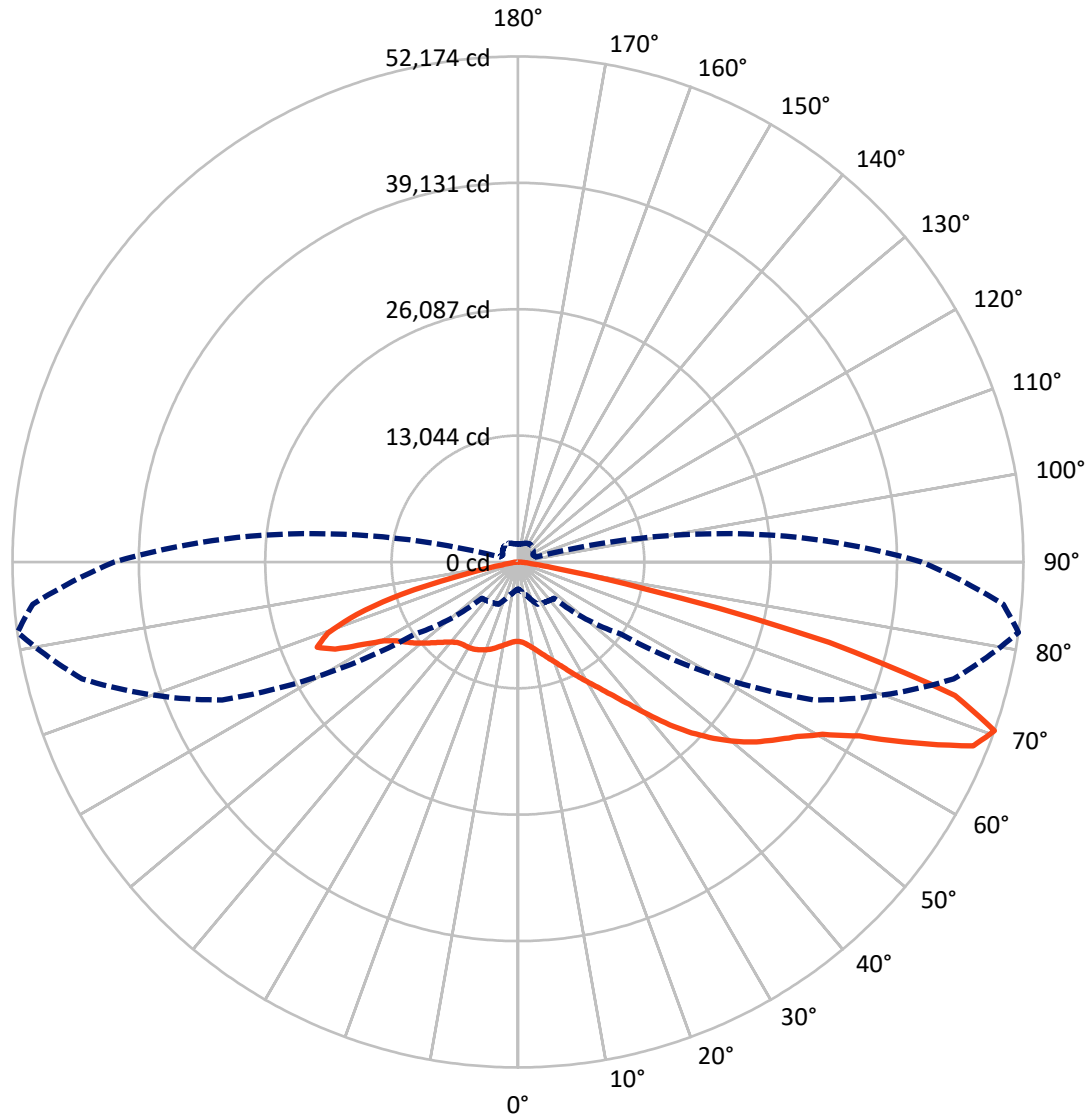
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13764.0	0.0	13764.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	42068.1	0.0	42068.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	55832.0	0.0	55832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.9	1.4
10°-20°	2220.5	4.0
20°-30°	3714.7	6.7
30°-40°	5803.3	10.4
40°-50°	9242.4	16.6
50°-60°	12862.0	23.0
60°-70°	13454.2	24.1
70°-80°	7031.9	12.6
80°-90°	730.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	55832.0	100.0
0°-180°	55832.0	100.0



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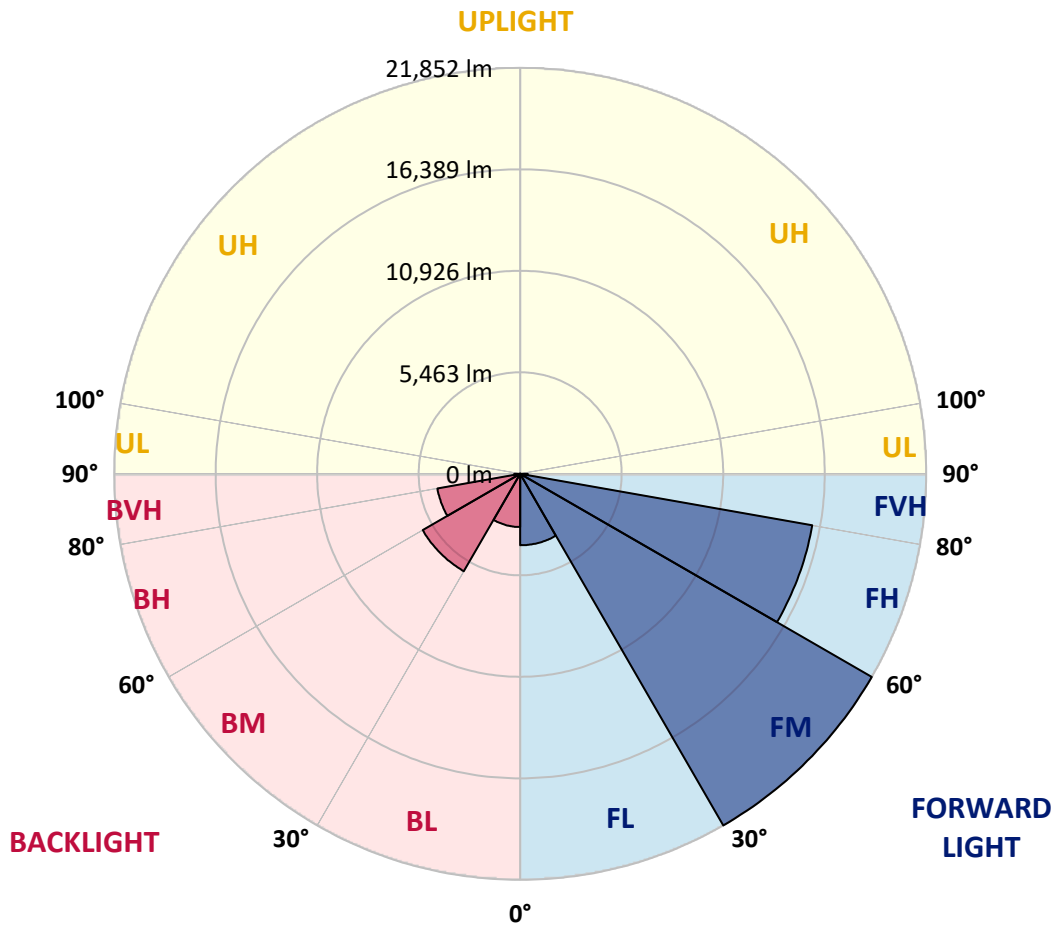
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3844.7	6.9			
FM (30°-60°)	21852.1	39.1			
FH (60°-80°)	15962.5	28.6			G5
FVH (80°-90°)	408.8	0.7			G3/500
BL (0°-30°)	2863.4	5.1	B4/5000		
BM (30°-60°)	6055.6	10.8	B4/8500		
BH (60°-80°)	4523.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	321.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7
2.5°	8381.2	8428.6	8413.8	8399.0	8399.0	8378.2	8375.3	8345.6	8321.9	8283.4
5°	8487.9	8538.2	8532.3	8544.1	8582.7	8591.5	8600.4	8582.7	8535.3	8487.9
7.5°	8393.1	8449.3	8467.1	8538.2	8656.7	8763.4	8843.4	8876.0	8831.5	8763.4
10°	8073.1	8135.3	8197.5	8366.4	8576.7	8828.6	9041.9	9169.3	9160.4	9095.2
12.5°	7424.3	7489.5	7622.8	7951.6	8336.8	8781.2	9178.1	9444.8	9536.6	9489.2
15°	6905.8	6962.1	7062.8	7400.6	7901.3	8576.7	9228.5	9747.0	9981.0	9954.3
17.5°	6891.0	6914.7	6976.9	7136.9	7522.0	8256.8	9175.2	10043.2	10490.6	10487.6
20°	7151.7	7160.6	7196.2	7228.7	7448.0	8013.8	9038.9	10289.1	11062.4	11062.4
22.5°	7513.2	7507.2	7542.8	7513.2	7619.8	7993.1	8953.0	10505.4	11699.3	11746.7
25°	8055.3	8025.7	8016.8	7948.7	7969.4	8185.7	9047.8	10751.3	12454.8	12552.5
27.5°	8778.2	8730.8	8698.2	8541.2	8487.9	8582.7	9338.1	11047.5	13296.2	13465.0
30°	9720.3	9634.4	9587.0	9314.4	9121.9	9136.7	9776.6	11441.6	14176.1	14448.6
32.5°	11006.1	10872.7	10745.4	10298.0	9945.5	9829.9	10342.4	11986.7	15130.0	15565.5
35°	12445.9	12339.2	12203.0	11512.7	10970.5	10703.9	11106.8	12748.1	16246.9	16937.2
37.5°	13832.4	13740.5	13805.7	12875.5	12176.3	11788.2	12108.2	13770.2	17624.5	18643.7
40°	15266.3	15195.2	15204.1	14315.3	13500.6	13065.1	13322.8	15053.0	19203.6	20673.0
42.5°	16824.6	16771.3	16593.5	15805.5	14890.0	14484.2	14721.2	16534.3	20898.2	22983.9
45°	18569.6	18537.0	18371.1	17467.5	16418.7	15962.5	16282.5	18169.6	22601.7	25158.4
47.5°	20077.6	20104.2	20083.5	19322.1	18234.8	17565.3	17947.4	19876.1	24186.7	27202.6
50°	20803.4	20942.6	21147.1	20910.0	20234.6	19553.2	19627.2	21523.3	25697.6	29119.4
52.5°	20424.2	20687.8	21244.8	21624.0	21884.7	21742.5	21544.0	23158.7	27119.7	30849.6
55°	19011.0	19381.3	20305.7	21221.1	22551.3	23585.3	23846.0	24971.8	28506.2	32372.4
57.5°	16436.5	17037.9	17867.5	19719.1	21958.8	24477.0	26530.1	27487.0	29975.6	33998.8
60°	12022.2	12828.1	13859.1	16614.3	19885.0	24000.0	28814.3	31350.3	32064.2	36105.2
62.5°	7693.9	8191.6	9139.6	11734.9	15494.4	21555.9	29513.4	36179.3	35604.6	39559.6
65°	5267.5	5587.5	6455.5	7913.1	10016.6	16045.5	27641.1	39799.6	41227.6	45034.5
67.5°	3827.7	4070.6	4811.3	6088.1	6526.6	9495.1	21449.2	39633.7	46693.6	50675.3
70°	2790.8	2962.6	3584.7	4811.3	5021.6	5282.3	12994.0	33690.7	46575.1	52174.4
72.5°	2067.9	2186.4	2604.1	3732.9	4064.7	3567.0	6431.8	24485.9	40021.8	47191.3
75°	1496.1	1585.0	1893.1	2855.9	3252.9	2716.7	3208.5	14309.4	27916.6	33196.0
77.5°	1143.6	1211.7	1413.2	2091.6	2604.1	2038.3	1990.9	6582.9	13236.9	13302.1
80°	918.4	962.8	1072.5	1472.4	1996.8	1525.7	1297.6	2657.5	4183.2	3540.3
82.5°	675.5	749.5	906.6	1033.9	1428.0	1051.7	791.0	1342.1	1590.9	1368.7
85°	385.1	435.5	548.1	740.7	912.5	642.9	453.3	595.5	740.7	607.3
87.5°	136.3	177.8	192.6	290.3	397.0	266.6	174.8	171.8	242.9	180.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8185.7	0°	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7	8185.7
8274.5	2.5°	8244.9	8230.1	8170.9	8090.9	8007.9	7927.9	7901.3	7845.0	7806.5	7785.7
8467.1	5°	8410.8	8363.4	8224.2	8046.4	7859.8	7658.3	7516.1	7385.8	7291.0	7202.1
8730.8	7.5°	8647.8	8564.9	8324.9	8013.8	7682.0	7347.3	7098.4	6908.8	6781.4	6698.4
9038.9	10°	8923.4	8796.0	8428.6	7963.5	7450.9	6971.0	6677.7	6514.8	6434.8	6390.3
9391.4	12.5°	9240.4	9059.6	8535.3	7847.9	7098.4	6550.3	6348.9	6301.5	6304.4	6307.4
9835.8	15°	9631.4	9379.6	8621.2	7596.1	6639.2	6227.4	6191.8	6268.9	6348.9	6387.4
10339.5	17.5°	10072.8	9717.3	8636.0	7181.3	6188.9	6020.0	6132.6	6298.5	6420.0	6473.3
10902.4	20°	10546.9	10061.0	8529.3	6594.8	5818.6	5851.1	6052.6	6265.9	6399.2	6467.4
11545.3	22.5°	11089.0	10428.4	8274.5	5978.5	5516.4	5667.5	5904.5	6111.8	6251.1	6319.2
12300.7	25°	11708.2	10840.2	7874.6	5460.1	5255.7	5460.1	5697.1	5868.9	5981.5	6043.7
13145.1	27.5°	12395.5	11269.7	7341.3	5048.3	5027.5	5246.8	5442.3	5575.6	5634.9	5682.3
14042.7	30°	13085.8	11660.8	6695.5	4737.2	4829.0	5036.4	5175.7	5234.9	5252.7	5261.6
15044.1	32.5°	13832.4	11998.5	6017.0	4479.5	4639.4	4832.0	4915.0	4941.6	4858.7	4802.4
16258.8	35°	14736.0	12360.0	5353.4	4275.0	4452.8	4618.7	4645.4	4621.7	4523.9	4408.4
17781.5	37.5°	15852.9	12810.3	4823.1	4129.9	4278.0	4387.6	4355.0	4349.1	4358.0	4221.7
19612.4	40°	17221.6	13396.9	4435.0	4017.3	4135.8	4159.5	4067.7	4118.0	4162.5	3955.1
21621.1	42.5°	18741.4	14104.9	4189.1	3940.3	4017.3	3961.0	3818.8	3875.1	3869.2	3596.6
23638.6	45°	20290.9	14875.2	4103.2	3884.0	3907.7	3795.1	3638.1	3652.9	3528.5	3282.6
25573.2	47.5°	21831.4	15701.8	4156.5	3836.6	3771.4	3644.0	3522.5	3457.4	3273.7	3090.0
27427.8	50°	23342.3	16569.8	4352.1	3741.8	3584.7	3510.7	3421.8	3306.3	3110.7	2953.7
29181.6	52.5°	24743.7	17443.8	4571.3	3584.7	3350.7	3395.1	3338.9	3205.5	3013.0	2853.0
30840.7	55°	26070.9	18317.8	4657.2	3368.5	3131.5	3294.4	3261.8	3015.9	2784.8	2654.5
32576.8	57.5°	27516.6	19369.5	4562.4	3093.0	2953.7	3178.9	3054.4	2781.9	2648.6	2550.8
34837.2	60°	29519.4	21019.7	4358.0	2752.3	2784.8	3007.0	2793.7	2681.2	2536.0	2426.4
38226.5	62.5°	32846.4	24097.8	4029.1	2414.5	2586.4	2752.3	2669.3	2556.7	2408.6	2301.9
44021.3	65°	37764.3	28375.8	3410.0	2150.8	2364.2	2503.4	2536.0	2423.4	2269.4	2156.8
49099.2	67.5°	41911.9	31059.9	2580.4	1931.6	2136.0	2301.9	2393.8	2284.2	2121.2	2011.6
50287.2	70°	41683.8	29110.5	1970.1	1715.3	1934.6	2103.4	2222.0	2136.0	1961.2	1857.6
45677.4	72.5°	37023.6	24352.6	1593.9	1496.1	1730.2	1896.1	2038.3	1973.1	1795.3	1694.6
33462.6	75°	27199.6	17286.8	1273.9	1273.9	1475.4	1679.8	1836.8	1795.3	1632.4	1561.3
14048.7	77.5°	11465.3	7252.4	998.4	1057.6	1226.5	1442.8	1638.3	1653.1	1510.9	1599.8
3715.1	80°	3048.5	1999.8	761.4	832.5	962.8	1191.0	1425.0	1419.1	1265.0	1182.1
1380.6	82.5°	1161.3	788.1	542.2	586.6	696.2	912.5	1128.8	1164.3	1010.2	874.0
542.2	85°	447.4	337.7	334.8	352.5	405.9	604.4	853.2	882.9	761.4	645.8
151.1	87.5°	115.5	100.7	124.4	118.5	186.6	322.9	488.8	506.6	465.1	269.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
8185.7
7809.4
7237.6
6716.2
6402.2
6313.3
6384.4
6485.1
6485.1
6337.0
6061.5
5700.0
5282.3
4820.2
4414.3
4230.6
3961.0
3593.6
3291.5
3090.0
2941.9
2855.9
2642.6
2541.9
2420.4
2301.9
2162.7
2014.6
1866.4
1694.6
1540.6
1451.7
1099.1
874.0
666.6
385.1
0.0

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